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ATAKA JNANA AAYOGA
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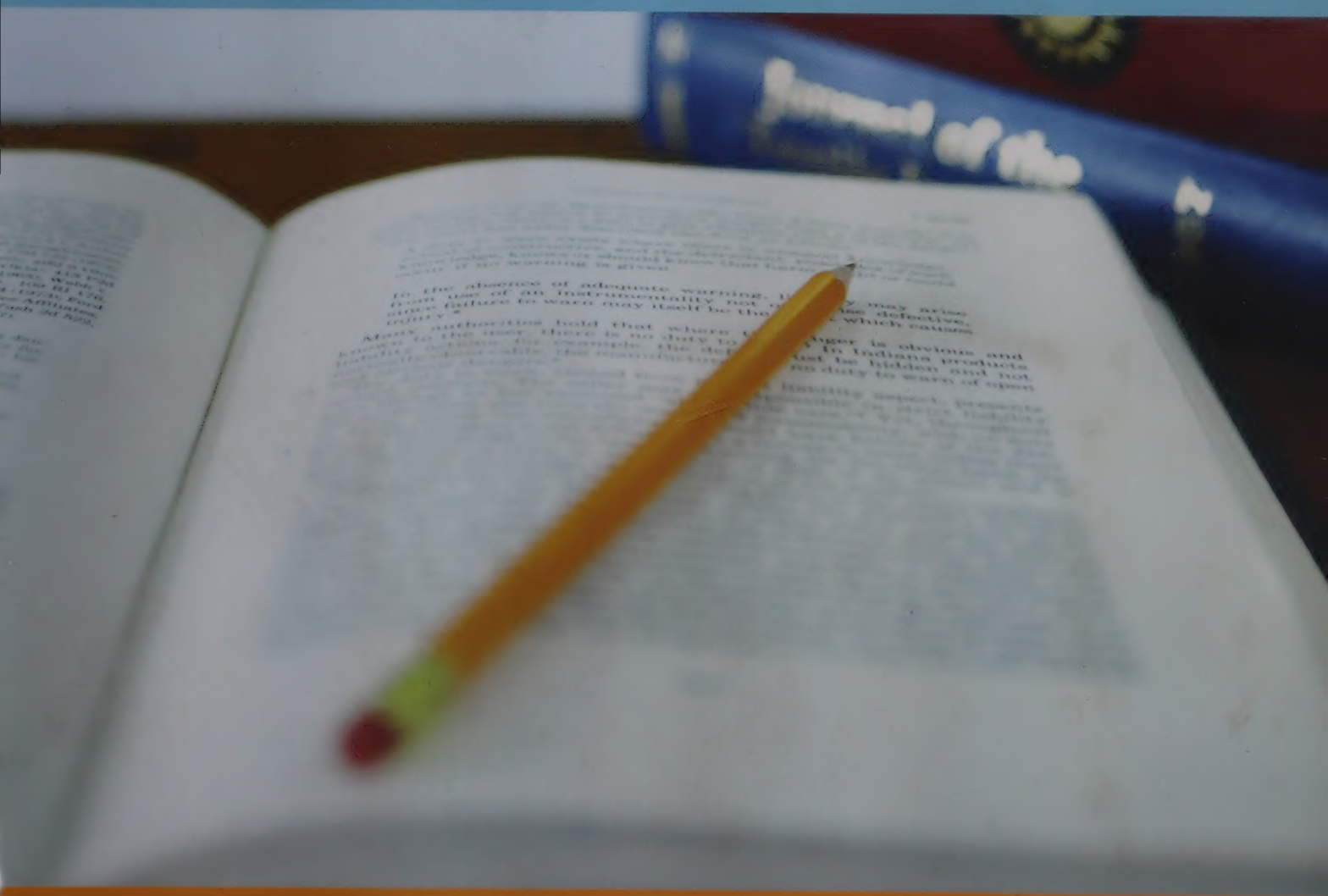
JNANA PALLAVA

THREE YEARS IN TRANSFORMING KARNATAKA INTO A VIBRANT KNOWLEDGE SOCIETY

A REPORT TO THE PEOPLE OF KARNATAKA



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(KARNATAKA KNOWLEDGE COMMISSION)
DEPARTMENT OF HIGHER EDUCATION
GOVERNMENT OF KARNATAKA

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FOREWORD

Accomplishing some of the important elements of the vision of transforming Karnataka into a vibrant knowledge society was quite challenging. Our journey began in 2008 with comprehending the knowledge requirements of the chosen six sectors. I am pleased to share that some of the research studies undertaken by our Aayoga are unique and first of its kind in the country. The Recommendations aim at knowledge intervention not only at the grass-root level but also at the policy and larger system.

This report gives a glimpse of the work of the Aayoga during its three year term. The vast and vibrant stakeholders made significant contribution in realising our vision. The participation and involvement of the Departments in implementing the recommendations helped Aayoga in the pursuit of its mission.

I thank Honourable Chief Minister, Honourable Ministers, Chief Secretary, Principal Secretaries and Secretaries of various Departments of Government of Karnataka for their kind support, trust and acceptance of Aayoga and recognition of its work. The journey of the Aayoga has been the journey of the people of Karnataka towards building a knowledge society. I acknowledge with gratitude the contribution and efforts of members, experts, stakeholders and the team at Aayoga.

Dr. K. Kasturirangan
Chairman
Karnataka Jnana Aayoga
Government of Karnataka.

MESSAGE

I am pleased to learn about the work of the Karnataka Jnana Aayoga during its three years of existence. The Aayoga has played a pivotal role in transforming Karnataka into a vibrant knowledge society. Submission of 60 recommendations, commissioning of six research studies and nine pilot projects is noteworthy. I congratulate Dr. K. Kasturirangan and all the members of Aayoga for their contribution to the development of Karnataka.

A unique way of functioning of the Aayoga has been its deep engagement with the system/departments for implementation of the recommendations. This has infused a new culture of collaboration between and among departments. Karnataka has taken a leap forward in striving to create a knowledge society.

I wish that the good work of Aayoga would bring benefit to our State in the days to come.

Sri. D.V.Sadananda Gowda
Chief Minister
Government of Karnataka

MESSAGE

The constitution of Karnataka Jnana Aayoga with the mandate of transforming Karnataka into a vibrant knowledge society was a milestone in Karnataka. Several new initiatives were taken up to give impetus to knowledge creation, dissemination and application. In the process of implementing the recommendations of the Aayoga, the education sector witnessed a significant change in its approach towards quality education.

I applaud the work carried out by the Aayoga under the visionary leadership of Dr. K. Kasturirangan.

I acknowledge the contribution of the Members and stakeholders in this regard.

Sd/-

Dr. V. S. Acharya
Honourable Minister for Higher Education
Planning and Statics, Muzarai
Information Technology & Bio-Technology
Government of Karnataka.

MESSAGE

The importance of knowledge intervention to take advantage of global shift towards knowledge centric activities was perceived by Karnataka and Karnataka Jnana Aayoga was constituted in 2008, under the Chairmanship of Dr. K. Kasturirangan, to evolve a roadmap to transform Karnataka into a vibrant knowledge society.

The contribution of the Aayoga, has been exemplary. The recommendations have the potential to bring in the vibrancy and much needed impetus to the system.

I acknowledge the immense contribution of the Jnana Aayoga and thank the Chairman and the Members for their valuable inputs which will go a long way in transforming our society into a dynamic knowledge soceity.

Sri. S.V. Ranganath
Chief Secretary
Government of Karnataka

INTRODUCTION

MAKING OF A KNOWLEDGE SOCIETY

CONCEPT OF KNOWLEDGE AND KNOWLEDGE SOCIETY

Knowledge, in its purest form, is an embodiment of truth, well-justified belief and propositions. It links cause and effect relationships of natural and man-made phenomena. In practical terms, an organised and well structured form of knowledge is a multidimensional concept drawn from various disciplines and schools of thought. Moreover knowledge forms the very base of holistic human development in all societies. It is increasingly seen as one of the most important factors in determining a state's competitive advantage and thereby influences the development of its people and society.

What is a Knowledge Society?

A Knowledge Society is centred on knowledge for its development. It can be built when the inherent and new knowledge of a State rhythmically translates into competitiveness, productivity, social welfare, good governance and human development.

What distinguishes a Knowledge Society?

Knowledge is pervasive. A Knowledge Society distinguishes itself from other type of societies by empowering its citizens through universalising access, ensuring equity and promoting new knowledge generation.

A large part of the literature on Knowledge Society links it with other widely used concepts/definitions such as information society, knowledge economy, networked society, digital society, technology society etc. In particular, more frequent debates arise in comparing concepts of information society and knowledge economy to the attributes of a knowledge society. In any knowledge society, it is not only the means (technologies) to spread it that need to be taken into account, but it also encompasses the ends - a (value-based) human capital development to make it effective. The concept of a knowledge society is broader than the other concepts being more embracing and conducive to equity and empowerment. In fact, the final purpose of a knowledge society is to enhance value for the people and emphasizes on entrepreneurship, innovation, environmental awareness, and also development of values[1].

[1] *Drawn from Naumanen, Mika, (2003), Knowledge Society Barometer*

KEY COMPONENTS OF A KNOWLEDGE SOCIETY

Knowledge remains an abstract concept and to capture the flow and trends of knowledge in a Knowledge Society a theoretical breakdown is vital. The three broad components of Creation, Dissemination and Application of Knowledge form the basis for this theoretical breakdown.

Encapsulating the major themes discussed around the subject of knowledge and Knowledge Society by various development agencies the key components of a Knowledge Society have been identified as below.

KNOWLEDGE CREATION: ENGAGEMENTS FOR PRODUCING NEW KNOWLEDGE

Knowledge is the focal point of knowledge societies where producing or acquiring new knowledge and developing and preserving existing knowledge are essential requirements. This makes the society responsive to the changing needs of its people.

KNOWLEDGE DISSEMINATION: ENGAGEMENTS FOR SPREADING AND SHARING KNOWLEDGE

Providing access to knowledge increases opportunities for people to engage in more productive activities. It is, therefore, essential to expand the reach of knowledge in society and to ensure that all sections of the society have unrestricted access to it.

KNOWLEDGE APPLICATION: ENGAGEMENTS FOR TRANSFORMING KNOWLEDGE INTO EFFECTIVE ACTION

The third component of the framework relates to the application of knowledge. It is here that knowledge is transformed into productively beneficial uses and activities. Investment in production of new knowledge and its subsequent dissemination should accelerate both economic growth and human development through the application of knowledge.

INTER-LINKAGES BETWEEN KNOWLEDGE CREATION, DISSEMINATION & APPLICATION

While three components of knowledge society have been described, it is important to recognize that there is significant degree of interactions and overlap between them in reality. For instance, knowledge creation through research and innovation is significantly dependent on the systems of education, health, agriculture etc for knowledge dissemination and communication. Once the knowledge is passed on to the masses or disseminated, it needs to be applied in day-to-day living in the form of effective action. It also needs to be applied in various sectors and industries to produce outputs. This is the stage of knowledge application, which again leads to development of new and effective technologies and further knowledge creation through myriad learning generated from experience. The State requires a holistic development such that each citizen is empowered with knowledge through effective creation, dissemination and application. It is only through fostering individual knowledge capabilities that the overall knowledge capability of the state can be developed. The entire knowledge flow, permeating through these inter linkages is illustrated in the next page.

Karnataka has a rich heritage and culture where knowledge creation, dissemination and application have found generous expression throughout the civilization in varied forms of literature, art, architecture, medicine etc. Karnataka is home to around 32 universities (including central, state and deemed) accompanied by an equal number of government and corporate research organisations which foster creation, dissemination and application of knowledge and higher learning not only in the areas of standard academic importance but also in a vast variety of subject areas ranging in the fields of art, architecture, technology, renewable energy, bio medicine, yoga, sericulture and several others.

KNOWLEDGE CREATION: A SYNOPSIS

Bangalore has emerged as the 'Research & Innovation' hub with a number of premier institutions undertaking research.

Districts like Mysore, Dakshina Kannada, Gulbarga, Shimoga & Dharwad have a strong base of Higher Educational Institutions and Industrial centres.

At the national level, the State holds the second position with respect to Patent Applications made. These applications are made in a variety of research areas including IT, Biotechnology, Pharmaceuticals, Social Sciences etc.

R&D activities in Karnataka has an increasing trend and will be one of the key driving factor in the State's transformation into a vibrant knowledge Society.

KNOWLEDGE DISSEMINATION IN KARNATAKA

Dissemination, communication and sharing of new and existing knowledge through robust systems and processes is critical for the desired transformation into a Knowledge Society.

Overview: Dissemination of knowledge is the critical link between creation and application of knowledge which when effectively undertaken guarantees universal access to knowledge. Dissemination activities largely constitute sharing and distribution of knowledge to the masses. Knowledge created through various research and development activities and industrial spill over is channelized to the society and its users through formal and informal Dissemination Channels.

KNOWLEDGE DISSEMINATION: A SYNOPSIS

The Gross Enrolment Ratio (GER) for Karnataka is higher than the national average and in some districts primary enrolment is almost universal.

Compared to the national average, Karnataka has a higher number of general colleges and institutions for vocational training.

EDUSAT has already been established at VTU providing e-learning and distance learning facilities to more than 100 colleges. EDUSAT has not reached the majority of States in the country yet.

Telemedicine facilities have already been established in all district hospitals of the State. It has not yet been introduced in majority of Indian States.

More than 90 per cent of the villages are connected through wireless network.

Currently there are 27.69 internet subscribers in Karnataka per 1000 population and it is ahead of the national average and states like Andhra Pradesh, Tamil Nadu and Kerala. Primary survey reveals that people are open and receptive to innovation and ICTs.

There is a vast network of NGOs in Karnataka which are contributing to the State's development through active knowledge dissemination.

KNOWLEDGE APPLICATION

The third component of the framework relates to application which is the process of transformation of knowledge into productively beneficial uses and activities.

Investment in production of new knowledge and its subsequent dissemination should accelerate both economic growth and human development through the application of knowledge.

KNOWLEDGE APPLICATION: A SYNOPSIS

67 per cent of the population in the state is in the age group of 15-59 years which establishes that the state has a favorable demographic advantage.

The number of job seekers measured by the live register figures of employment exchanges exhibit a decreasing trend.

New Industrial Policy, 2009-2014' aims at building a prosperous Karnataka through the development of human and natural resources in a systematic, scientific and sustainable manner.

Favourable policy thrust to encourage entrepreneurship and innovation, accompanied by receptiveness amongst the majority (as revealed by primary data analysis).

Organic and sustainable farming have gained momentum in recent years

TRADITIONAL KNOWLEDGE IN KARNATAKA

Traditional knowledge refers to knowledge, innovations and practices of indigenous and local communities embodying traditional lifestyles. Taking cognizance of the importance of traditional knowledge for human benefit especially in the present scenario where the existing resources are getting depleted and global emphasis is shifting to sustainable development, KJA lays equal emphasis on creation, dissemination and application of traditional knowledge in transforming Karnataka into a Knowledge Society. Such knowledge is culture intense and consists of the following characteristics[2]:

- Skills, knowledge & practices in people
- Generally not very organized & non-formal
- Focus on culture and tradition
- Protects indigenous identity
- Present in large numbers
- Constitutes social capital

TRADITIONAL KNOWLEDGE: A SYNOPSIS

A vast pool of traditional knowledge lies in agriculture, veterinary care, human health, handicrafts, performing arts, religion and astrology.

Applications of traditional knowledge largely in the fields of science, medicine and linguistics form parts of academic curriculum in Karnataka and efforts have been undertaken to document it.

Knowledge of languages such as Sanskrit and Kannada, Unani and Ayurvedic medicine systems are also disseminated through Institutions of higher education in the State.

Research Organisations have also been working towards identifying, assimilating and documenting traditional knowledge in the State.

[2] Drawn from the Knowledge Pyramid conceptualized by Dr. M.K.Sridhar, Member Secretary and Executive Director of Karnataka Jnana Aayoga.

CHARACTERISTICS OF A KNOWLEDGE SOCIETY

The KJA had the mandate of understanding the intrinsic characteristics of a Knowledge Society to chart the path for transition. Based on discussions with stakeholders[3] and literature review, the following five key characteristics have been identified:

- There exists Knowledge in all. [Universal Presence]
- Knowledge is available to all. [Universal Access]
- Knowledge is equally accessible to all. [Equity in Access]
- Bottom-Up Approach to empower the society's citizens. [Knowledge Empowerment]
- Continuous process of learning, development and knowledge generation. [Lifelong Learning]

CHARACTERISTICS OF A KNOWLEDGE SOCIETY

[3] *Drawn from Knowledge Pyramid suggested by Dr MK Sridhar, Member Secretary of Karnataka Knowledge Commission and PwC internal consultations*

WHEELS OF KNOWLEDGE

The perspective of KJA on knowledge creation, dissemination and application can be best summarized by the Wheel of Knowledge indicated below. The pictorial representation below emphasizes the tightly coupled and inter-dependencies of each of these components with the terms of reference of the KJA in the realization of the Knowledge Society.

The approach and functions of the KJA is inspired by this perspective. In summary, the constitution of the KJA strengthens the wheel of Knowledge Leadership, while the actions followed by the recommendations of the KJA propel each of the remaining wheels in tandem. The arrows indicate the inter-sectoral and departmental interaction.

THE NAISSANCE

ORIGIN AND CONSTITUTION

TRYST WITH KNOWLEDGE SOCIETY

The knowledge infrastructure in Karnataka, namely the educational institutions, universities, institutions of national importance, scientific establishments, research and development (R & D) institutions and knowledge-oriented industries is very robust and expanding in the recent years. Responding to the emerging needs with a shared vision and commitment, the Honorable Chief Minister Sri. B.S. Yeddyurappa constituted the Karnataka Jnana Aayoga ((KJA) - Karnataka Knowledge Commission) on 5th September, 2008 under the Chairmanship of world-renowned space scientist Dr. K. Kasturirangan. The overall mandate of KJA is to transform Karnataka into a vibrant knowledge society.

TERMS OF REFERENCE

The following are the Terms of Reference of the KJA:

Build excellence in the educational system to meet the knowledge challenges of the 21stcentury and increase Karnataka's competitive advantage in fields of knowledge.

Promote creation of knowledge in all formal and non-formal educational, scientific and knowledge institutions in Karnataka.

Improve the leadership and management of educational and knowledge institutions in Karnataka.

Promote knowledge applications in agriculture, rural development, health, industry and other areas.

Enhance the use of knowledge capabilities in making the government an effective service provider to the citizen and promote widespread sharing of knowledge to maximize public benefit.

Promote inter-sectoral interaction and interface with the objective of preservation, access, creation, application, dissemination, outreach and services relating to knowledge.

COMPOSITION

The KJA consists of 11 members by name, including a Chairman and a Member Secretary cum Executive Director, as well as 17 ex-officio members drawn from National Institutes, Universities and various government departments. In all, KJA consists of 28 members. KJA has six focus areas, and each focus area has a Working Group comprising of experts in that specific field. Working Groups can form a smaller sub-group of experts called the Study Group and can consult stakeholders for their views and opinions on various issues.

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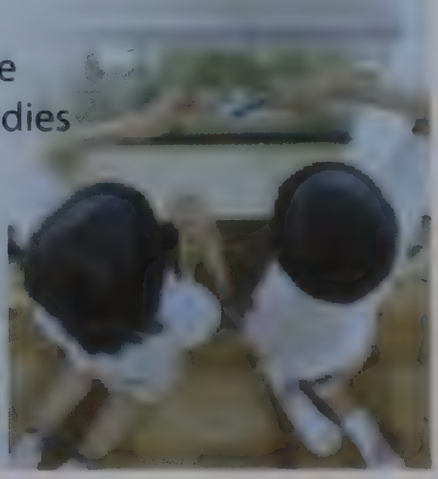

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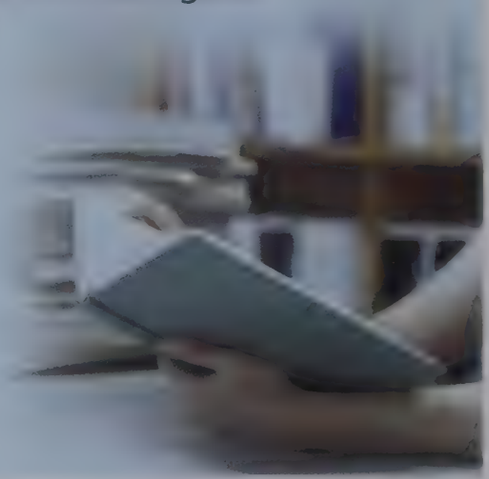

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Prof. M.K. Sridhar
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Mysore University
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EXPERT COMMITTEE ON SCHOOL LIBRARIES

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THE MARCH

REALIZING THE GOALS

APPROACH

The realization of the envisioned mandate and achieving it rests on careful planning, strategy formulation and execution in a multi-pronged manner. A key challenge for the KJA is to work with all the stakeholders by engaging them at every step. Additionally, the KJA apart from being responsible for delivering on the terms of reference of its constitution, it has the onus of thinking ahead and be able to provide thought leadership across various domains. Furthermore, recognizing the efforts of National Knowledge Commission, it became important to set expectations amongst the various stakeholders and arduously make efforts fulfilling them. With a desire to realize the goals, KJA adopted the following approach in its way forward:

Diagnosis of present status through interaction with departments, stakeholders, experts and through undertaking survey based research studies

Arriving at the desired status

Undertaking pilot projects in partnership with the concerned departments
Prioritization of recommendations

Facilitating policy formulation and institution building

Institutional building and issue of Government Orders

Consistent and continuous efforts for implementation of recommendations.

To accomplish the stated mandate following six focus areas were identified-

A working group of experts has been constituted in each of these focus areas. In addition, there are study groups within certain working groups. The function of the working groups and study groups is to do an in-depth analysis of the present status of the concerned focus areas, consult stakeholders, carry out research and make recommendations to KJA.

STAKEHOLDERS

Since its inception KJA has been intensely engaged with key stakeholders on the one hand and is constantly interacting with the end-users on the other. Based on the identified focus areas, KJA has been consulting the following key stakeholders:

- Educational institutions of all types and at all levels
- Teachers, students and youth
- Health Practitioners/ Medical Doctors
- User system and industry
- Government and Civil society and voluntary organizations

MILESTONES

Quarter-1
Sept. 2008-Dec. 2008

- Familiarisation of work and members
- Constitution of Working Groups
- Necessary Government Orders

Quarter-2
Jan. 2009-March. 2009

- Meetings of Working Groups
- Setting up of office
- Appointment of KJA Personnel
- Preparation of Budget Proposals

Quarter-3
April. 2009-June. 2009

- Vice-Chancellors' Summit
- Interface with Departments and Stakeholders
- Launch of Website
- Constitution of Study Groups
- Constitution of Expert Committee on Innovative University

Quarter-4
July 2009-Sept. 2009

- Submission of First Set of Recommendations
- Feedback sessions on Recommendations with Departmen
- Consultation on 'Kanaja'

Quarter-5
Oct. 2009-Dec. 2009

- Launch of KANAJA
- Submission of Expert Committee Report on Innovative Universities
- Follow up on First set of Recommendations

Quarter-6
Jan 2010-March 2010

- Submission of Second Set of Recommendations
- Prioritization o Recommendations
- Constitution of Project Manageme Group (PMG)
- Launch of 'Sahayog'
- Commissioned three research stud

Quarter-7
April 2010-June 2010

- Implementation strategy for Recommendations
- Launch of ARIVU
- Stakeholders' Consultations

Quarter-8
July 2010-Sept. 2010

- Constitution of Expert Committee On Skill Development
- Stakeholder Consultation on Skill Development
- Inter-State consultation on Professional Education

Quarter-9
Oct. 2010-Dec. 2010

- Launch of Samarth, Swasthya, Dravya Kosha, Odu Putani and Manava Bhandara Projects
- Consultation on 'Autonomous Certification and Administrative Body'
- Consultation on 'Linkages between Primary & Secondary Education and Higher Education'

Quarter-10
Jan. 2011-March 2011

- Submission of Third Set of Recommendations
- Commissioning of three Research Studies
- Brainstorm on Innovation in Karnataka
- Interface with Departments

Quarter-11
April 2011-June 2011

- Constitution of 'Karnataka State Innovation Council'
- Review of Recommendations by Chief Secretary
- Passage of 'Innovative Universities Bill - 2011' by Karnataka State Legislature
- Constitution of 'Expert Committee on Public Libraries'
- Launch of 'Daksha' Project

Quarter-12
July 2011-Sept. 2011

- Launch of 'Jnana Fellowship'
- Social Audit of KJA work by Public Affairs Centre, Bangalore
- Submission of reports, research studies and publications
- Last and farewell meeting of KJA

All in absolute numbers

During its three year term, KJA had held 72 meetings with the concerned departments, 58 consultation meetings with various domain experts, 18 stakeholders consultations, 13 KJA meetings, launched 11 projects and commissioned 6 research studies.

RECOMMENDATIONS AND STAGES OF IMPLEMENTATION

★ ★ ★ Implementation completed ★ ★ On the verge of completion ★ Under consideration

BUILD EXCELLENCE IN THE EDUCATION SYSTEM

1. To have a functioning and an effective school library with appropriate books and audio-video materials for the use of students and teachers. ★ ★ ★

2. To make available to all undergraduate college libraries and others in Karnataka select video-taped lectures of experts in Humanities and Social Sciences for the purposes of generating more interest and enthusiasm. ★

3. To confine post graduate courses in Law to the newly created Law University of Karnataka and constituent Law Colleges of Universities in the state. ★

4. To establish an Advanced centre for Legal Research and Law related studies on the model of ISEC, NIAS etc. ★

5. To transform two of the existing Universities into Model Universities in order to make them trendsetters for others. ★ ★ ★

6. To strengthen and empower DSERT, DIETs, BRCs and CRCs in the state of Karnataka for becoming decentralised lead resource institutions. ★ ★ ★

7. To bring about reforms in pre-service and in-service teacher education. ★ ★ ★

8. To create an Autonomous Certification and Administrative Body in Karnataka to bring in more dynamism and contemporariness to the vocational education and training. ★ ★

9. To introduce add-on courses comprising of life and vocational skills to all students of UG programs in different Universities of Karnataka. ★ ★

10. To promote University Library and Information Network of Karnataka (UniLINK) as a registered cooperative. ★

11. To increase the number of teacher awards and publish a compendium of all such awardees. ★

12. To introduce the accreditation of schools based on the robust and reliable quality standards on voluntary basis. ★

13. To introduce awareness and information on vocational knowledge and skills at secondary level of education. ★★

14. To launch an exclusive portal and toll-free helpline for all types of information and updates relating to Vocational Education and Skill Development in the State. ★★

15. To strengthen and reinforce the academic and research character of DSERT by divesting of non-academic/non research functions and appropriate restructuring. This must eventually lead to according University status to DSERT over a period of time. ★★

16. To evolve a comprehensive policy on Teacher Professional Development to address the challenges arising from the provisions of Right of Children to Free and Compulsory Education Act, 2009 (RTE Act 2009). ★

17. To establish an exclusive capacity building centre to train and to promote research among the lecturers of pre-university colleges in Karnataka. ★★

18. To rejuvenate UG and PG programmes of various Universities of our state. ★★

PROMOTE CREATION OF KNOWLEDGE

19. To develop and depute one mobile Internet Van in every district of Karnataka for the purposes of creating awareness and interest in online availability of knowledge resources. ★★

20. To develop the proposed Ayurveda University as a unitary and contemporary research oriented university. ★

21. To introduce unconventional courses in Medical Electronics, Aviation, Marine Engineering, Solar and Wind Energy in select industrial training institutes of the state. ★★★

22. Create Wikipedia type of portal in Kannada which will become the encyclopedia of all information in Kannada. ★★★

23. Establish 'Karnataka State Research and Innovation Fund' for encouraging colleges and Universities to pursue relevant research and also to build interface between state planning and research in Higher Education. ★

24. To introduce 'mentoring by top scientists' scheme for select talented rural students. ★

25. To start Post Graduate Department at the existing Government Homeopathy College in Bangalore. ★

26. To set up Samudaya Jnana Kendra (SJK) at the grass root levels of our state to empower and enrich the lives of farmers, women, children, senior citizens and others in the community. ★★

27. To establish a 'State Innovation Council' (on the lines of National Innovation Council) to drive and channelize all pervasive innovation for the development of the State. ★★★

28. To establish few centres of excellence in frontier areas of science and technology. ★

29. To introduce a 'Karnataka Scholarship Scheme' for students of vocational, general degree, technical and medical courses. ★

IMPROVE THE LEADERSHIP AND MANAGEMENT OF INSTITUTIONS

30. To upgrade Indira Priyadarshini Children's library presently located in Cubbon Park, Bangalore into an invaluable resource center. ★★

31. To rank all colleges (UG & PG) teaching Humanities, Social Sciences, Law and Management at the University level. ★

32. To rejuvenate 'Prasaranga' (publication division) of Universities. ★

33. To increase Gross Enrolment Ratio in Higher Education from 11.6% to 15%. ★★

34. To introduce uniform academic calendar with specific dates for all universities of Karnataka. ★★★

35. To introduce Public Health Cadre in the Health & Family Welfare Department of Karnataka. ★★

36. To establish a School of Public Health in Karnataka to cater to the needs of human resources development. ★

37. To introduce a Human Resource Development (HRD) division in Department of Health and Family Welfare. ★★

38. To review the existing Karnataka Public Libraries Act, 1965 and restructure the public libraries. ★★

39. To constitute a State Mission on Libraries and Knowledge Networks. ★

PROMOTE KNOWLEDGE APPLICATION

40. To design and develop an on-line catalogue of all Kannada books and materials and other knowledge resources available in the state of Karnataka along with their location and availability. ★

41. To develop regional pharmacopeias for all districts. ★★

42. To design and develop catalogue and digitization of medical manuscripts of Karnataka. ★

43. To constitute a multi-user and multi-lingual traditional medicine portal, Electronic Ayurvedic encyclopedia and Medical dictionary. ★

44. To introduce and make available an integrated and comprehensive digital resource book. ★

MAKING GOVERNMENT AN EFFECTIVE SERVICE PROVIDER

45. To design and launch State- level programs on preventive healthcare (swastha-vritta). ★★★

46. To make necessary amendments to the existing policy on Apprenticeship in Karnataka in order to align it with the changes in job market. ★★

47. To establish a homeopathic dispensary in Primary Health Centres of Karnataka. ★

48. To improve and strengthen primary health centres (PHCs). ★

49. To develop Health Management Information System (HMIS). ★★★

50. To increase the overall budgetary allocations to the health. ★

51. To throw open the libraries of Universities and Colleges to the members of public. ★

52. To undertake a special drive to promote and enlist 'School Nurturing Programme' launched during February, 2009. ★★

53. To increase meaningful and sustained interface between public system and citizens. ★★

54. To convert the websites of State Governments' major departments into functional portals. ★★

55. To make urban health in big towns and cities the responsibility of the local Municipalities and Corporations. ★

56. To review and evaluate all the existing Public-Private Partnership (PPP) schemes launched by Department of Health and Family Welfare, GoK, since 2005. ★★

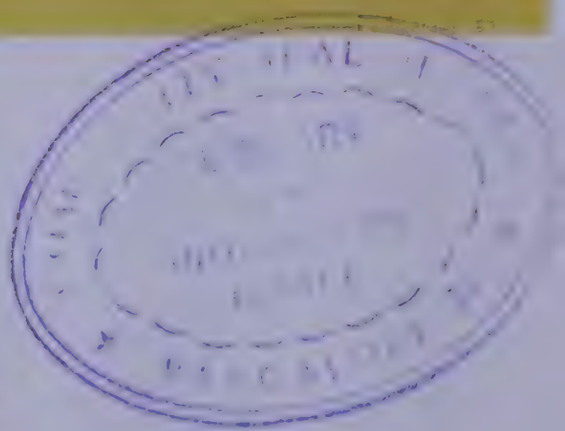
57. To make E-procurement of drugs and equipment mandatory at State level. ★★★

PROMOTE INTER-SECTORAL INTERACTION

58. To impart skill training in retail business, communication skills, life skills, data entry, entrepreneurship etc. to students pursuing BA course. ★★★

59. To promote collaboration between Universities and other bodies and institutions (including Private Universities, Deemed Universities, Foreign Universities, Professional Bodies, Industry Associations, Research Labs etc). ★★

60. To institutionalise and sustain the linkages between the institutions of higher learning and Departments concerned with Primary and Secondary Education. ★★



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RESEARCH STUDIES AND SURVEYS

Besides receiving inputs from knowledge leaders and stakeholders, KJA commissioned research studies to accomplish its mandate. During its three-year term following six survey based research studies were undertaken:

PRE-SERVICE ELEMENTARY TEACHER EDUCATION IN KARNATAKA: A STATUS STUDY

In pursuance of the recommendation to bring about reforms in pre-service and in-service teacher education, a study on the status of D.Ed colleges in Karnataka was conceived. D.Ed Colleges from the four educational divisions were selected, based on the proportion of colleges in each division. A stratified random sampling technique was used to ensure proportional representation of Government, Aided and Unaided colleges. The sample comprised of 108 D.Ed colleges, 600 teacher educators and 983 student teachers. The study used both quantitative and qualitative data which were captured through a set of seven data forms. KJA collaborated with R.V.Teachers Consortium for the Study.

A STUDY ON BUILDING KNOWLEDGE SOCIETY IN KARNATAKA

To accomplish the KJAs mandate of transforming Karnataka into a vibrant knowledge society, a study on Building Knowledge Society in Karnataka was commissioned. Initially a framework based on the views of the various development agencies such as the World Bank, UNDP and National Knowledge Commission pertaining to knowledge society was developed. The framework includes three vital components of Knowledge Society- 'creation' of knowledge, 'dissemination' of knowledge and 'application' of knowledge.The approach of the study is based on resource profiling and mapping, understanding requirements and identifying gaps in terms of creation, dissemination and application of knowledge.

Analysing the strengths and gaps, a roadmap for transforming Karnataka into a vibrant Knowledge Society, including a 'District wise-Creation-Application-Dissemination Index (D-CAD Index) to measure the level of transformation (into knowledge society) is suggested. Sample stratification for survey was undertaken according to historical-geographical regions of Karnataka. Districts within each region were selected based on the Human Development Index (HDI) rankings. The study was entrusted to PricewaterhouseCoopers Pvt. Ltd,.

A STUDY ON PERCEPTIONS, ASPIRATIONS, EXPECTATIONS AND ATTITUDES OF YOUTH OF KARNATAKA

To capture the perceptions, aspirations, expectations and attitudes of one of our key stakeholders-YOUTH- a survey-based mega study was conceived. The study covers young people in the state in the age group of 15 to 34 years. In an attempt to cover the entire youth population a representative sample was drawn from all over the State. The survey was conducted in 600 Polling Stations spread across 150 Assembly Constituencies.

Out of 12600 target samples, 8999 respondents were interviewed. The study provides a snapshot of the 'world' of the youth and their perceptions on wide issues ranging from personal belief system to larger sociopolitico-economic system. Based on the findings, several policy recommendations have been made to enhance the youth participation in transforming Karnataka into a knowledge society. The study was undertaken by Jain University.

FINANCES OF UNIVERSITIES
A STUDY OF UNIVERSITIES OF KARNATAKA

All the state universities in Karnataka are heavily dependent on state government grants and resource crunch is the dominant reason for not taking up any new activities. Despite huge allocation to Universities to enhance the quality of higher education, they face severe criticism for low performance, underutilization of resources, lack of accountability and inflexibility in the mode of functioning of institutions. In order to rectify the deficiencies and to make improvements in the university system, a study to analyse the finance and costs of universities was undertaken in collaboration with Indian Institute of Management-Bangalore. Besides looking at the current practices of financial allocation and audit, the Study makes recommendations to improve and diversify income sources for Universities.

A STUDY FOR DEVELOPING A MODEL SAMUDHAYA JNANA KENDRA

Putting in place robust knowledge processes is an important part of transforming Karnataka into a vibrant knowledge society. Though the State Capital and few other tier two cities have been quite successful in connecting to the global knowledge economy, use of new knowledge opportunities in local development and community processes has still been limited. In this context, a study was undertaken to develop a model Samudhaya Jnana Kendras or Community Knowledge Centres to be established across the state which would act as the centre for creation,

dissemination and application of knowledge. The study explored the appropriate institutional system to support this new knowledge paradigm through a wide consultation and case study. The study recommends setting up of Samudhaya Jnana Kendras which are not just points in space and time, but represent the locus of a set of new community-based processes which together can achieve the objective of transforming Karnataka into a knowledge society. The study was entrusted to IT for Change.

These survey based research studies are intended to supplement the efforts of the KJA in accomplishing its mandate of transforming Karnataka into a vibrant knowledge society.

THE WAVES

FEW GRATIFYING STORIES

GRATIFYING STORIES

Most gratifying for KJA has been the phase in which select few Recommendations were converted into projects and were implemented in collaboration with the line departments. Following are recommendations implemented in project mode under different names.

KANAJA- STORE HOUSE OF KNOWLEDGE

One of the flagship accomplishments of the KJA is the launch of Kannada Knowledge Portal – www.kanaja.in. Kanaja in Kannada refers to the traditional storage space for food grains, which in this case is an online repository for knowledge in Kannada. The portal was launched on 5th December, 2010 by the Honourable Chief Minister Dr.B S Yeddyurappa. Prof. De. Javare Gowda, Former Vice Chancellor, Mysore University presided over. Kanaja is created to compile all the data available in Kannada and disseminate knowledge in Kannada thereby enable Karnataka as a vibrant Knowledge society. It also aims to encourage the online use of Kannada.

The portal Kanaja serves as a source of information on various issues in Kannada. The portal can accommodate up to 1.3 lakh articles. So far 1,300 articles are uploaded. About 10 lakh 74 thousand words have been incorporated. The portal has a separate section for Kannada language and literature, science and technology, and agriculture. The portal is updated constantly. It also offers viewers' participation in updating the information and hence the information posted by the viewers is posted on the portal after verification by an expert committee constituted for the purpose. It is heartening to note that the visually challenged can avail this facility through e-speak software. The target users of Kanaja portal are not only researchers and scholars but also students, farmers,

A steering committee has been constituted under the chairmanship of Sri. Chiranjeevi Singh, Additional Chief Secretary (Retd), Government of Karnataka to advice, monitor and review the project. The project is supported by the Department of Kannada and Culture and Kannada Development Authority. The task of developing and maintaining the project for the year 2010-11 and 2011-12 has been handed over to International Institute of Information Technology, Bangalore (IIIT-B).

ARIVU: 'OPEN LIBRARY' IN SCHOOL

Arivu is a project to make libraries in Government high schools effective and functional with appropriate books and audio visual materials to help students and teachers.

An expert committee to select books and other materials thereby helping develop libraries in government high schools was constituted under the chairmanship of Ms. Sobha Nambisan. A manual on Open Library was prepared to effectively carry forward the concept among the targeted group.

A pilot project was carried out in 225 Government schools of the state coming under the Department of Primary and Secondary Education. The books and CDs identified by the expert committee were distributed as well as the racks needed for storing them. Teachers and librarians were imparted training on open library system through workshops in Bangalore and Dharwad. Mentoring of these School libraries were also undertaken to encourage open libraries.

SAHAYOG: COLLABORATION

Sahayog is a concept having a primary objective to improve the employability of undergraduate students of Government Colleges by imparting training to them in vocational and life skills. This project is intended to develop creativity, critical thinking, learn interpersonal and conflict management skills necessary to prepare students face the challenges of life.

It is decided that the project will be carried out in joint collaboration with the Department of Collegiate Education (DCE) and Karnataka Vocational Training and Skill Development Corporation (KVTSDC). A manual on life skills was prepared both in English and Kannada.

The First phase of the project was held during 2009-10 where nearly 7000 students from 112 Government colleges of the state were trained. After this successful endeavour, in the second phase 13363 students from 223 government first-grade

colleges of the state were selected and training is in progress. Of the total 120 hours of training, 80 hours is spent for imparting vocational skill training and the remaining 40 hours is spent in giving life skill training to the participant students. ICFAI Business School, Bangalore has developed a case study on this. A third party evaluation and training need analysis for the next phase of Sayayog is also planned .This is undertaken by Bhavan's Management Research Centre, Bharatiya Vidya Bhavan, Banglaore.

SAMARTH: STRENGTHEN AND EMPOWER

SAMARTH
Empowerment of DIETS

Project Samarth aims at developing, strengthening and empowering DSERT and DIETs (District Institute of Education and Training) as decentralised lead resource institutions by better regulation of standards and norms.

Project proposal of seven DIETs are supported by Karanataka Jnana Ayoga with the active co-operation of Department of Primary and Secondary Education and DSERT.

Department of State Education Research and Training (DSERT) will coordinate with Karnataka Jnana Ayoga to implement this project. As a first phase, a visioning workshop was organized with the DIET's and based on the outcome of the workshop, specific goals and action plan were chalked out. Later at a state level workshop taking note of the feedback, a revised action plan was prepared. In the second phase the DIET's are required to come out with a project proposal based on the context and needs of their particular district and submit a proposal to KJA for guidance and grants to implement the project.

Center for Leadership and Management in Public Service(C-LMPS) and RV Education Consortium are identified as the resource institutions to mentor DIET's in their projects. A screening committee of six members was constituted under the Chairmanship of Director, DSERT.

SWASTHYA: PREVENTIVE HEALTH CARE

Swasthya

The project Swasthya, an initiative aims at designing and launching state-level programmes on preventive health care (Swasthavritta) and initiating retrospective research studies to identify good traditional health practices which will contribute to enhance self reliance in public health care.

It is observed that today region-specific health needs are generally overlooked, family and individual life style corrections are not focused and preventive medicine is totally neglected hence basic cause of disease continues thus affecting the quality of life. The traditional and regional knowledge helps greatly to empower individuals with proper knowledge of health. Hence Swasthya is a project to identify good traditional health practices, create awareness on health care and improve health practices, examine region specific health needs and evolve an integrated approach towards preventive medicine activities. It also envisages combining Ayurvedic practices in respect of national health programmes. This would be a module for need-based health awareness education and care that in a long run contribute to the rise in the quality of public health and also help in conserving the valuable medicinal resources of nature.

This project has mainly three components i,e. Health Awareness, Health Education and Health Care. Initially few taluks of the state may serve as sample seeds for this 'Citizen Health Empowerment Drive'! This programme activity includes publications, field visits, lectures, workshops and interactions, demonstration, exhibitions, regular periodical health care camps for preventive and therapeutical purposes and family health care through physical and mental rejuvenating and harmonizing techniques.

Department of AYUSH has undertaken project Swasthya as a pilot project in six selected districts of the state to be concluded in two phases. In the first phase Bangalore (Urban and Rural) ,Sisri and Bijapur and in the second phase Mysore (Rural), Dharwad (Rural) and Mangalore are included.

The implementation of this project is in collaboration with local NGOs, educational institutions especially government institutions, Taluk Panchayats, local Ayurvedic practitioners etc.

A core project advisory committee has been formed under the chairmanship of the Secretary, Health and Family welfare Department, Government of Karnataka. The project is executed by Ayurveda Academy under the guidance of Department of AYUSH, Karnataka Government.

Project Dravya Kosha aims at developing regional pharmacopeias in all districts of the state for conservation, cultivation and sustainable utilization of medicinal plants that can be put to community use, strengthen the community and help the folk healer associations. These pharmacopeias can also be used in educational institutions for future research and development.

Karnataka Jnana Ayoga in its proposal to the project Dravya Kosha has outlined the following objectives: to come out with data based information of folk Vaidyas, identify experts in the health field, train the ASHA workers and NGO's, form and strengthen folk practices at different levels (Taluks, Districts and State) and compilation of all information. It also aims at linking Government organizations, non-Government organizations, folk practitioners and private practitioners in this endeavour.

The project plan includes identifying and establishing region-wise plant source database, conduct home remedy programmes in urban and rural area, streamline AYUSH, set up traditional health care mission, train different stream of health practitioners, students and general public.

At present work is going on in Tumkur and Shimoga districts. Dravya Kosha is being implemented through the Department of AYUSH, Government of Karnataka, with the cooperation of Ayurvedic colleges like Government Ayurvedic medical College (GAMC), Bangalore and few NGO's.

A project advisory committee has been formed under the chairmanship of the Secretary, Health and Family welfare Department.

ODU PUTANI COME ON READ MY DEAR CHILD

The Project Odu Putani, an initiative of Karnataka Jnana Ayoga is aimed at upgrading Indira Priyadarshini Children's library presently located in Cubbon Park, Bangalore into an invaluable resource center in the field of science, technology, mathematics, music, culture, history etc for the children of various schools of Karnataka. It is essential to strengthen the library exclusively for children to inculcate the habit of reading, encourage self learning, and provide access to quality literature.

It has been recommended to convert IPCL as a "Model library" with varieties of books, educational toys, science kits and audio/video equipments etc. The library shall offer free access to internet, encyclopedia and dictionaries etc. It shall also conduct group video shows, workshops, seminars, and competitions, and several varieties of holiday activities.

Recently an event of painting, drawing and quiz competition was organized where more than 1000 students from 50 schools participated.

Department of Primary and Secondary Education, Public Libraries, Department of Horticulture, Department of Women and Child Welfare are engaged and involved in this project. Efforts to establish collaboration between various concerned Departments is being contemplated to focus on resources mobilization, infrastructure, innovative activities and mechanisms to attract the children to the library.

DAKSHA: DEVELOPMENT OF EDUCATIONAL LEADERSHIP

Universities and colleges are considered the pillars of knowledge infrastructure of state. The Project Daksha is initiated to develop educational leaders. It aims at empowering lecturers and other administrative staff, Vice Chancellors and Registrars of Universities and Principals of Government degree colleges through leadership training.

In this project, nearly 3000 recruited Assistant Professors will be undergoing seven days residential training in life skills, spoken English and pedagogy of teaching along with exposure to the latest Information and Communication Technology with a higher education perspective. Seventy five batches of 40 Assistant Professors will undergo training in divisions like Bangalore, Mysore, Mangalore, Shimoga, Gulbarga and Dharwad.

Training Need Analysis (TNA) has been undertaken and completed in consultation with stakeholders like lecturers, principals, joint directors and the Department of Collegiate Education (DCE). The TNA forms the basis to prepare the modules and content for the training programmes. Discussions with the Indian Institute of Management Bangalore is in progress to train the Vice Chancellors and principals.

SOME INNOVATIVE PRACTICES PURSUED BY KJA

KJA developed innovative practices in the process of realizing its mandate. Every phase and process from making of recommendations to converting them to projects and implementing them in collaboration with the concerned departments led to innovative practices. Some of the innovative practices pursued by KJA are -

Consistent interaction and collaboration with various Government Departments for idea generation and implementation of recommendations.

Select recommendations were converted into pilot projects and were implemented in collaboration with the line Departments, which gave them a sense of ownership of the recommendations.

A Project Management Group was constituted to implement eleven projects.

Research Studies were commissioned to complement and supplement the recommendations in attaining the KJA mandate.

Prioritization of recommendations, to have a focused drive, was undertaken in-house keeping in view of the requirements of the departments and KJA mandate.

Jnana Fellowship an innovative scheme to bring in the young professionals into the public system was introduced.

Submission of quarterly reports on the progress of the work to the Office of the Honourable Chief Minister.

Networking with national academic and research institutes and other national level government and quasi-government bodies.

Evaluation and impact studies of pilot projects were undertaken to assess the outcome of the projects.

Creation of conducive and friendly office atmosphere for effective public interaction.

Audit of the KJA work process and output with respect to the mandate was carried out by the Public Affairs Centre, Bangalore.

ROAD AHEAD ...

WHERE THE MIND IS WITHOUT FEAR

Where the mind is without fear and the head is held high;
Where knowledge is free;
Where the world has not been broken up into fragments by narrow domestic walls;
Where words come out from the depth of truth;
Where tireless striving stretches its arms towards perfection;
Where the clear stream of reason has not lost its way into the dreary desert sand of dead habit;
Where the mind is led forward by thee into ever-widening thought and action --
Into that heaven of freedom, my Father, let my country awake.

From Gitanjali
Rabindranath Tagore

ACKNOWLEDGEMENTS

WE THANK THE FOLLOWING FOR THEIR SUPPORT

SRI. D. V. SADANANDA GOWDA, HONOURABLE CHIEF MINISTER

DR. V. S. ACHARYA, HONOURABLE MINISTER FOR HIGHER EDUCATION

CHIEF SECRETARY

PRINCIPAL SECRETARY (HIGHER EDUCATION)

CHIEF MINISTERS' OFFICE

DEPARTMENT OF HIGHER EDUCATION

DEPARTMENT OF PRIMARY AND SECONDARY EDUCATION

DEPARTMENT OF LABOUR

DEPARTMENT OF HEALTH AND FAMILY WELFARE

DEPARTMENT OF MEDICAL EDUCATION

DEPARTMENT OF KANNADA, CULTURE AND INFORMATION

DEPARTMENT OF FINANCE

PLANNING, PROGRAMME MONITORING & STATISTICS DEPARTMENT

DEPARTMENT OF PERSONNEL ADMINISTRATION AND REFORMS

DEPARTMENT OF LAW AND PARLIAMENTARY AFFAIRS

DEPARTMENT OF RURAL DEVELOPMENT AND PANCHAYAT RAJ

DEPARTMENT OF PUBLIC LIBRARIES

DEPARTMENT OF AYUSH

KARNATAKA VOCATIONAL TRAINING AND SKILL DEVELOPMENT CORPORATION

KARNATAKA STATE COUNCIL FOR HIGHER EDUCATION

ALL THE UNIVERSITIES OF THE STATE

STAFF OF THE OFFICE OF DR. K. KASTURIRANGAN AT PLANNING COMMISSION, NEW DELHI

STAFF OF THE OFFICE OF THE DIRECTOR, NATIONAL INSTITUTE OF ADVANCED STUDIES, BANGALORE.

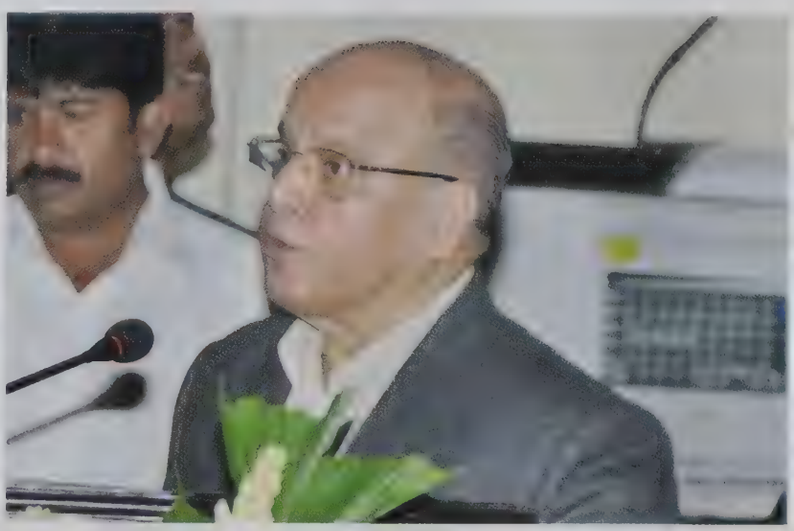
PHOTO GALLARY

KIA MEETINGS

KJA MEETINGS

WORKING GROUP MEETINGS

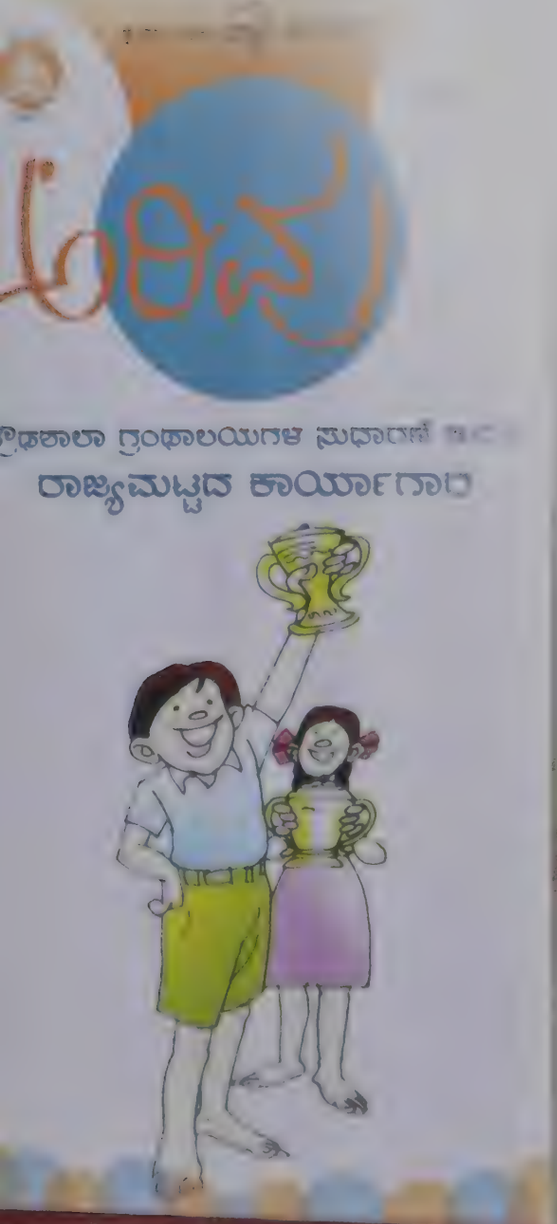
LAUNCH OF KANAJA



MEETING WITH THE THEN CHIEF MINISTER

MEETING OF CHIEF SECRETARY WITH PRINCIPAL SECRETARIES

LAUNCH OF ARIVU



LAUNCH OF ODU PUTANI

LAUNCH OF SAMARTH

KKC recommendations: Separate fund mooted
Community knowledge centres on the anvil
Sahayog, a big hit in government college
State govt infuses
Soft skills taught to government college students
Innovation council for State mooted
DECCAN HERALD
Knowledge Commiss
higher education sta
Govt high school studer
design their own librari
Knowledge panel fav
public health cadre
ವಿಜಯ ಕರ್ನಾಟಕ
ಇದು ಮಾಹಿತಿಯ 'ಕಣಜ'
ರಾಜ್ಯ: ಪ್ಲಾನ್ ಆಯೋಗದ ಗುರಿ
ರಾಜ್ಯ ಇನೋವೇಶನ್ ಕೌನ್ಸಿಲ್
DNA
Soon, you may hear Kannada
Corruption rankles youth: survey
IMES OF INDIA
Youths prefer govt jobs: study
Secure Employment Utmost Priority For 60% Respondents
ಪ್ರಜಾವಾಣಿ
ಉದಯವಾಣಿ

KARNATAKA JNANA AAYOGA
ಕರ್ನಾಟಕ ಜ್ಞಾನ ಆಯೋಗ

KARNATAKA JNANA AAYOGA
(KARNATAKA KNOWLEDGE COMMISSION)
GOVERNMENT OF KARNATAKA

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